Whitney Dam and Whitney Lake

OWNER

The U.S. Government. Operated by the U.S. Army Corps of Engineers, Fort Worth District.

ENGINEER (Design)

U.S. Army Corps of Engineers.

LOCATION

On the Brazos River in Hill and Bosque Counties, 38 miles upstream from Waco, and 5.5 miles southwest of Whitney.

DRAINAGE AREA

17,656 square miles contributing. 8,950 square miles noncontributing.

DAM

Type Length Concrete gravity and earthfill

17,695 ft 159 ft

Maximum height

Embankment 34 ft and spillway 28 ft Top width

SPILLWAY

Type Length (net at crest) 680.0 ft

Crest elevation

533.0 ft above msl

Control

17 tainter gates, each 40 by 38 ft

OUTLET WORKS

Control

Type Invert elevation 16 conduits, each 5 by 9 ft 448.83 ft above msl Gates operated from tunnel

POWER GENERATION FEATURES

Number of units

Total capacity

2 30,000 kw

AUTHORIZATION

Federal:

Flood Control Act, August 18, 1941. Flood Control Act, December 22, 1944.

Civil Functions Appropriation Act 1953.

None. Brazos River Authority is considering purchase of 50,000 acre-feet of storage space for water supply.

RESERVOIR DATA (Capacities based on surveys made in 1959)

FEATURE	ELEVATION	CAPACITY	AREA
	(FEET ABOVE MSL)	(ACRE-FEET)	(ACRES)
Top of concrete dam	584.0	_	_
Top of earth embankment	580.0	_	_
Maximum design water surface	573.0	2,100,400	51,190
Top of flood-control pool	571.0	1,999,500	49,820
Spillway crest (top of ultimate power pool)	533.0	627,100	23,560
Top of interim power pool	523.0	427,400	16,450
Invert of lowest intake	448.83	4.270	475
Streambed	425.0	0	0
Sediment reserve and power-head storage space	520.0	379,100	-

GENERAL

Construction started Dam completed Deliberate impoundment began May 12, 1947 April 18, 1951 December 10, 1951 June 25, 1953

Power generation began

Marketing agency for power Southwestern Power Administration L. P. Reed Inc.

General contractor Estimated project cost \$41,795,000

KOPPERL 4 MILES WHITNEY LAKE BOSQUE COUNTY COUNTY -219-1244 Lake Whitney Whitney Dam